

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR 03/02212-0

CLASSIFICATION OF SUBJECT MATTER

IPC⁷: H01L 21/20, 21/336, 29/786; H01S 3/10; B23K 26/02; C23C 16/24, 16/48

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC⁷: H01L, H01S, B23K, C23C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI, IMPADOC, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2002/0110962 A1 (WADA et al.) 15 August 2002 (15.08.02) <i>fig. 7, abstract.</i>	1,2-5
A	US 2002/0083557 A1 (JUNG) 4 July 2002 (04.07.02) <i>fig. 4, 5; paragraph 35-46.</i>	1,2-5
A	US 2001/0019863 A1 (YANG) 6 September 2001 (06.09.01) <i>fig. 7, abstract.</i>	1,2-5
A	US 5302230 A (INO et al.) 12 April 1994 (12.04.94) <i>figs. 1-3; claim 1; abstract.</i>	1,2
A	JP 01 214011 A (SHARP CORP) 28 August 1989 (28.08.89) <i>fig. 1,3; abstract.</i>	1,2
A	JP 60 247488 A (HITACHI LTD) 7 December 1985 (07.12.85) <i>figures, PAJ - abstract.</i>	1

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

„A“ document defining the general state of the art which is not considered to be of particular relevance

„E“ earlier application or patent but published on or after the international filing date

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„O“ document referring to an oral disclosure, use, exhibition or other means

„P“ document published prior to the international filing date but later than the priority date claimed

„T“ later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

„X“ document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

„Y“ document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

„&“ document member of the same patent family

Date of the actual completion of the international search
12 December 2003 (12.12.2003)

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 56 047288 A (HITACHI LTD) 28 April 1981 (28.04.81) <i>figures, PAJ - Abstract.</i>	1,2,6
A	JP 02 165880 A (HITACHI LTD) 26 June 1990 (26.06.90) <i>figures, PAJ - Abstract.</i>	1
A	JP 54 153745 A (NEC CORP) 4 December 1979 (04.12.79) <i>figures, PAJ - Abstract.</i>	1
A	JP 03 235040 A (DAICEL CHEM IND LTD) 21 October 1991 (21.10.91) <i>figures, PAJ - Abstract.</i>	-

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR 03/02212-0

Patent document cited in search report			Publication date	Patent family member(s)		Publication date	
JP	A	1214011A 2		none			
JP	A	2165880A 2		none			
JP	A	3235040A 2		none			
JP	A	54153745 A2		none			
JP	A	56047288 A2		none			
JP	A	60247488 A2		none			
US	A	20010019 863		none			
US	A	20020083 557		none			
US	A	20020110 962		none			
US	A	5302230	1994-04-12	JP	A	61226919	1986-10-08
				JP	A	61227982	1986-10-11
				JP	A	61163631	1986-07-24
				JP	A	61161707	1986-07-22